

## DigiKeyer and Ham Radio Deluxe with DM780 setup guide

### Router setup:

**Note: The specific port numbers do not matter. The key is consistency - the same port number must be used for each function every time it is used.**

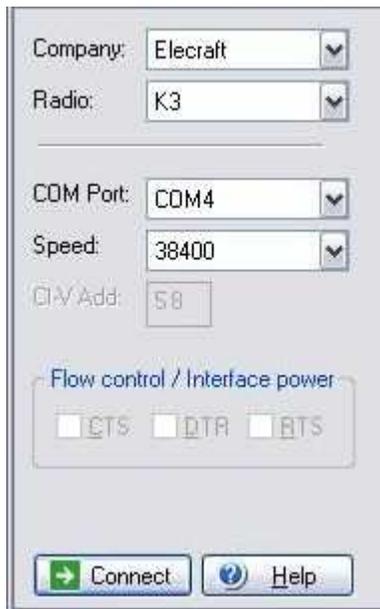
1. Assign the radio control virtual COM port.
2. Assign RTS for PTT on the same port as CAT. This will be used for PTT by HRD.
3. Assign a port for CW.
4. Assign RTS for 2<sup>nd</sup> PTT on the same port as CW. CW and 2<sup>nd</sup> PTT will be used by DM780.
5. Do not set a port for FSK – Ham Radio Deluxe and DM780 do not support FSK

The screenshot shows the 'Ports' tab in the software interface. The 'RADIO' section contains the following settings:

CAT:	COM4	open 38400 8N2	Set
2nd CAT:	none		
FSK:	none	<input checked="" type="checkbox"/> PTT	Test
2nd FSK:	none	<input checked="" type="checkbox"/> PTT	<input type="checkbox"/> invert <input type="checkbox"/> strict bps
CW:	COM5	DTR	closed Test
PTT:	COM4	RTS	open Test
2nd PTT:	COM5	RTS	closed
SQL:	none	CTS	<input type="checkbox"/> invert
Control:	none		Mon

6. On the **Keying tab** set "Serial port PTT" to PTT and select PA PTT/LNA PTT as appropriate.
7. Save settings to a preset by selecting menu **Preset | Save as**. Choose a position and name it HRD/DM780.

## Ham Radio Deluxe setup:

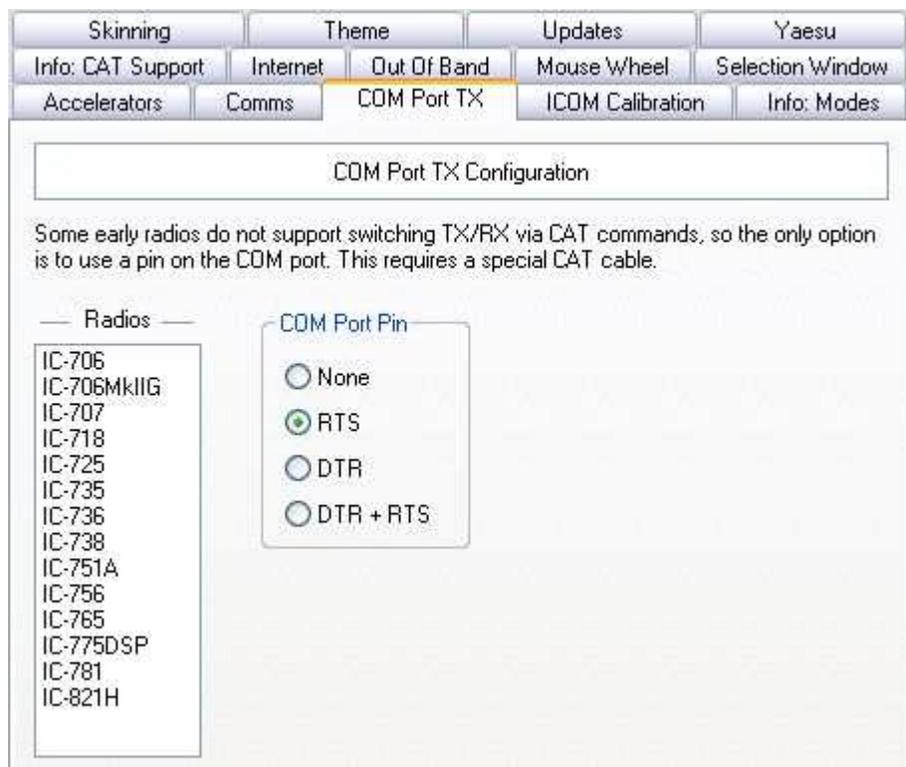


Company: Elecraft  
Radio: K3  
COM Port: COM4  
Speed: 38400  
GV Add: 58

Flow control / Interface power  
 RTS  DTR  RTS

[Connect](#) [Help](#)

1. Select your transceiver manufacturer and model.
2. Select the virtual port you set for CAT in Router.
3. Set the data rate for your transceiver's CAT connection.
4. Click "Connect"
5. Select "Options | COM Port TX"
6. Set COM Port Pin to RTS



Skinning	Theme	Updates	Yaesu
Info: CAT Support	Internet	Out Of Band	Mouse Wheel
Accelerators	Comms	COM Port TX	Selection Window
		ICOM Calibration	Info: Modes

COM Port TX Configuration

Some early radios do not support switching TX/RX via CAT commands, so the only option is to use a pin on the COM port. This requires a special CAT cable.

— Radios —

- IC-706
- IC-706MkIIIG
- IC-707
- IC-718
- IC-725
- IC-735
- IC-736
- IC-738
- IC-751A
- IC-756
- IC-765
- IC-775DSP
- IC-781
- IC-821H

COM Port Pin

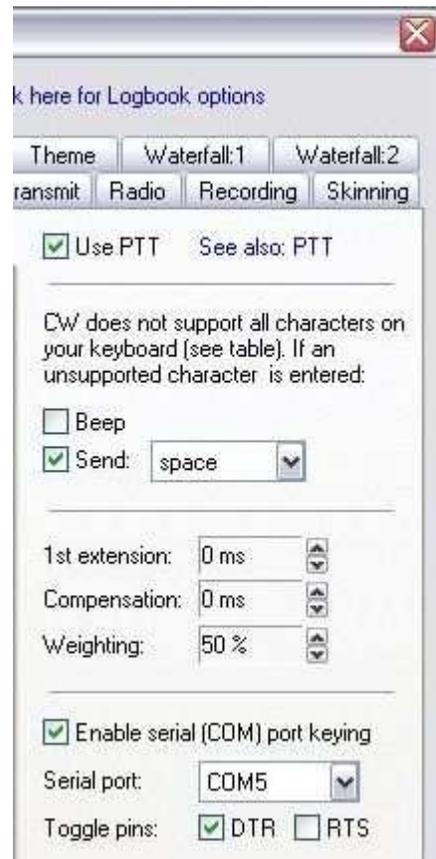
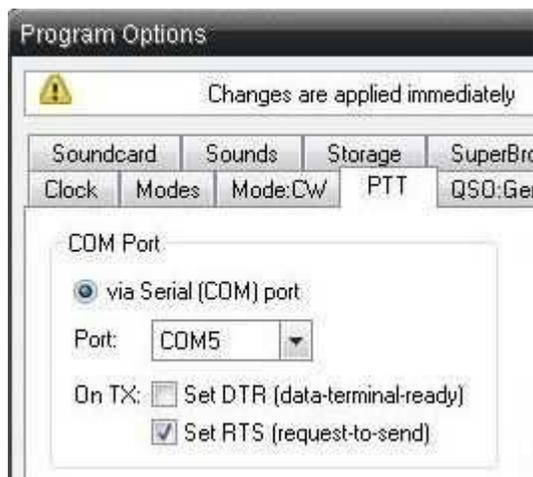
- None
- RTS
- DTR
- DTR + RTS

## DM 780 setup:



1. Start DM780
2. Select Soundcard | Options
3. Set the Input (Receive) device to USB Audio CODEC
4. Set the Output (Transmit) device to USB Audio CODEC
5. Set the Output (Transmit) level to 0 dB.

6. Select "Mode: CW" and check "enable serial (COM) port keying".
7. Check "use PTT" unless you prefer QSK CW
8. Set the serial port you selected for CW in Router and check "DTR"
9. Select the PTT tab



10. Select "via Serial (COM) port"
11. Set the serial port you selected for DM780 (2<sup>nd</sup> PTT) in Router and check "Set RTS"